

Assoc. Prof. EZGİ ERDOĞAN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAM-9717-2020

ScopusID: 57069737200

Yoksis Researcher ID: 186281

Education

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik (Dr), Turkey 2013 - 2018

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik Mühendisliği (YI) (Tezli), Turkey 2010 - 2013

Undergraduate, Sakarya University, Faculty Of Arts And Sciences, Department Of Mathematics, Turkey 2006 - 2010

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Zero-Product Preserving Operators and Product-Factorability of Bilinear Maps, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Dr), 2018

Postgraduate, Yeni bir operatörün bazı uzaylardaki spektral analizi, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Matematik Mühendisliği (YI) (Tezli), 2013

Research Areas

Functional Analysis, Operators, Measure and Integration

Academic Positions

Assistant Professor, Marmara University, Faculty of Arts and Sciences, Mathematics, 2021 - Continues

Research Assistant, Marmara University, Faculty of Arts and Sciences, Mathematics, 2012 - 2021

Researcher, Universidad Politecnica de Valencia, 2016 - 2017

Courses

Undergraduate

Analysis II, Undergraduate, 2020 - 2021

Analysis I, Undergraduate, 2020 - 2021

Social Work Practices, Undergraduate, 2019 - 2020, 2018 - 2019

Matematik II, Undergraduate, 2019 - 2020

Matematik I, Undergraduate, 2019 - 2020

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Lattice Lipschitz superposition operators on Banach function spaces**
Arnau R., Calabuig J. M., ERDOĞAN E., Sánchez Pérez E. A.
Journal of Mathematical Analysis and Applications, vol.546, no.2, 2025 (SCI-Expanded)
- II. **Approximation of Almost Diagonal Non-linear Maps by Lattice Lipschitz Operators**
Arnau R., Calabuig J. M., ERDOĞAN E., Sánchez Pérez E. A.
Bulletin of the Brazilian Mathematical Society, vol.55, no.1, 2024 (SCI-Expanded)
- III. **Extension procedures for lattice Lipschitz operators on Euclidean spaces**
Arnau R., Calabuig J., ERDOĞAN E., Sánchez Pérez E. A.
Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales - Serie A: Matemáticas, vol.117, no.2, 2023 (SCI-Expanded)
- IV. **CONVOLUTION-FACTORABLE MULTILINEAR OPERATORS**
ERDOĞAN E.
Revista de la Union Matematica Argentina, vol.65, no.1, pp.103-117, 2023 (SCI-Expanded)
- V. **Index spaces and standard indices in metric modelling***
ERDOĞAN E., Ferrer-Sapena A., Jimenez-Fernandez E., Sanchez-Perez E. A.
NONLINEAR ANALYSIS-MODELLING AND CONTROL, vol.27, pp.803-822, 2022 (SCI-Expanded)
- VI. **Factorization of multilinear operators defined on products of function spaces**
ERDOĞAN E.
LINEAR & MULTILINEAR ALGEBRA, vol.70, no.2, pp.177-202, 2022 (SCI-Expanded)
- VII. **Approximate Diagonal Integral Representations and Eigenmeasures for Lipschitz Operators on Banach Spaces**
ERDOĞAN E., Sanchez Perez E. A.
MATHEMATICS, vol.10, no.2, 2022 (SCI-Expanded)
- VIII. **Eigenmeasures and stochastic diagonalization of bilinear maps**
ERDOĞAN E., Sanchez Perez E. A.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.44, no.6, pp.5021-5039, 2021 (SCI-Expanded)
- IX. **Self-defined information indices: application to the case of university rankings**
Ferrer-Sapena A., Erdogan E., Jimenez-Fernandez E., Sanchez-Perez E. A., Peset F.
SCIENTOMETRICS, vol.124, no.3, pp.2443-2456, 2020 (SCI-Expanded)
- X. **Integral representation of product factorable bilinear operators and summability of bilinear maps on $C(K)$ -spaces**
ERDOĞAN E., Sánchez Pérez E.
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.483, no.2, 2020 (SCI-Expanded)
- XI. **Product factorability of integral bilinear operators on Banach function spaces**
ERDOĞAN E., Sánchez Pérez E., GÖK Ö.
Positivity, vol.23, no.3, pp.671-696, 2019 (SCI-Expanded)
- XII. **Convolution factorability of bilinear maps and integral representations**
ERDOĞAN E., GÖK Ö.
INDAGATIONES MATHEMATICAE-NEW SERIES, vol.29, no.5, pp.1334-1349, 2018 (SCI-Expanded)
- XIII. **Convolution-continuous bilinear operators acting on Hilbert spaces of integrable functions**
ERDOĞAN E., Calabuig J. M., Sánchez Perez E. A.

- ANNALS OF FUNCTIONAL ANALYSIS, vol.9, pp.166-179, 2018 (SCI-Expanded)
- XIV. **Operator ideal of s-type operators using weighted mean sequence space**
ERDOĞAN E., KARAKAYA V.
CARPATHIAN JOURNAL OF MATHEMATICS, vol.33, no.3, pp.311-318, 2017 (SCI-Expanded)
- XV. **Notes on the spectral properties of the weighted mean difference operator $G(u, v; \delta)$ over the sequence space ℓ^1**
KARAKAYA V., ERDOĞAN E.
Acta Mathematica Scientia, vol.36, no.2, pp.477-486, 2016 (SCI-Expanded)
- XVI. **NOTES ON THE SPECTRAL PROPERTIES OF THE WEIGHTED MEAN DIFFERENCE OPERATOR $G(u, v; \Delta)$ OVER THE SEQUENCE SPACE $l(1)$**
KARAKAYA V., ERDOĞAN E.
ACTA MATHEMATICA SCIENTIA, vol.36, no.2, pp.477-486, 2016 (SCI-Expanded)
- XVII. **ON SPECTRAL PROPERTIES OF A NEW OPERATOR OVER SEQUENCE SPACES c AND $c(0)$**
ERDOĞAN E., KARAKAYA V.
ACTA MATHEMATICA SCIENTIA, vol.34, no.5, pp.1481-1494, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **Product Factorable Multilinear Operators defined on Sequence Spaces**
ERDOĞAN E.
Communications Faculty of Sciences University of Ankara SeriesSeries A1: Mathematics and Statistics, vol.69, no.2, pp.152-166, 2020 (Peer-Reviewed Journal)
- II. **ZERO PRODUCT PRESERVING BILINEAR OPERATORS ACTING IN SEQUENCE SPACES**
Erdogan E.
CARPATHIAN MATHEMATICAL PUBLICATIONS, vol.12, no.1, pp.55-68, 2020 (ESCI)
- III. **Some Results on the Generalized Mellin Transforms and Applications**
ERDOĞAN E., Kocabaş S., DERNEK A. N.
Konuralp Journal of Mathematics, vol.7, pp.175-181, 2019 (Peer-Reviewed Journal)
- IV. **IDENTITIES ON THE $\epsilon(4n,1)$ -INTEGRAL TRANSFORM**
Dernek N., Mansimli G., Erdogan E.
JOURNAL OF INEQUALITIES AND SPECIAL FUNCTIONS, vol.8, no.5, pp.75-85, 2017 (ESCI)
- V. **IDENTITIES ON THE E_{4n-1} -INTEGRAL TRANSFORM**
DERNEK A. N., MANSIMLI G., ERDOĞAN E.
Journal of Inequalities and Special Functions, vol.8, pp.75-85, 2017 (ESCI)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **ON INEQUALITIES OF SOME INTEGRAL TRANSFORMS**
ALBAYRAK D., ERDOĞAN E., KARATAŞ H. B., UÇAR F.
10th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2021), 25 August 2021, (Summary Text)
- II. **On Factorization of Multilinear Maps defined on Sequence Spaces by Zero Product Preservation**
ERDOĞAN E.
9th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2020), Üsküp, Macedonia, 25 - 28 August 2020, (Summary Text)
- III. **Product factorability of zero product preserving multilinear maps**
ERDOĞAN E.
Infinite Dimensional Analysis and Topology IDAT2019, Ivano-Frankivsk, Ukraine, 16 - 20 October 2019, (Summary Text)

- IV. **Factoring Bilinear Maps through Convolutio**
ERDOĞAN E., Sánchez Perez E. A., GÖK Ö.
VI. Kadın Matematikçiler Derneği Çalıştayı, Konya, Turkey, 26 - 28 April 2019, (Summary Text)
- V. **Product Factorability of Bilinear Maps on Banach Function Spaces**
ERDOĞAN E., Sánchez Perez E. A.
Function Spaces XII, Krakov, Poland, 9 - 13 July 2018
- VI. **A Factorization of Zero Product Preserving Bilinear Maps**
ERDOĞAN E., Sánchez Perez E. A., GÖK Ö.
The 27th International Conference in Operator Theory, Temeşver, Romania, 2 - 06 July 2018
- VII. **Convolution factorability of zero product preserving bilinear maps**
ERDOĞAN E.
e Workshop on Infinite Dimensional Analysis on the occasion of the 60th birthday of Domingo García, Valensiya, Spain, 1 - 03 February 2018
- VIII. **s-sayıları ve multilineer operatörler**
ERDOĞAN E.
3. Marmara Matematik Günleri, İstanbul, Turkey, 28 - 29 September 2017
- IX. **Convolution-continuous bilinear operators acting on Hilbert spaces of integrable functions**
ERDOĞAN E., Calabuig J. M., Sánchez Perez E. A.
Banach Spaces and Operator Theory with Applications, Poznan, Poland, 03 July 2017 - 07 January 2018, pp.36, (Summary Text)
- X. **Some Results on the Generalized Mellin Transforms and Applications**
Kocabaş S., ERDOĞAN E., DERNEK A. N.
International Conference on Analysis and its Applications, Kırşehir, Turkey, 12 - 15 July 2016, (Summary Text)
- XI. **Operator Ideal of S Type Operators Using Weighted Mean Sequence Space**
ERDOĞAN E., KARAKAYA V.
International Conference on Analysis and its Applications, Kırşehir, Turkey, 12 - 15 July 2016
- XII. **On the Spectrum of the Product Operator W on the Sequence Space bv**
ERDOĞAN E., KARAKAYA V.
International Conference on Recent Advances in Pure and Applied Mathematics, (ICRAPAM 2014), Antalya, Turkey, 6 - 09 November 2014, (Summary Text)
- XIII. **The Spectrum of a New Operator On a Certain Sequence Space**
ERDOĞAN E., KARAKAYA V.
Karatekin Mathematics Days (KMD-2014), Çankırı, Turkey, 11 - 13 June 2014, (Summary Text)
- XIV. **Bazı Dizi Uzaylarındaki Spektral Analiz**
KARAKAYA V., ERDOĞAN E.
I. KADIN MATEMATİKÇİLER DERNEĞİ ÇALIŞTAYI, Kocaeli, Turkey, 2 - 04 May 2014, (Summary Text)
- XV. **The Spectrum of Matrix Operators on a Difference Sequence Space of Weighted Means**
ERDOĞAN E., KARAKAYA V.
International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2012), Priştine, KOSOVA, 3 - 07 September 2012
- XVI. **The Fine Spectra of a New Operator W on Sequence Space c_0**
ERDOĞAN E., KARAKAYA V.
International Conference on Applied Analysis and Application (ICAAA-2012), İstanbul, Turkey, 20 - 24 June 2012

Metrics

Publication: 39

Citation (WoS): 26

Citation (Scopus): 24

H-Index (WoS): 3

H-Index (Scopus): 3

Non Academic Experience

Universidad Politecnica de Valencia, Arařtırma